Daily GLOWBUGS

Digest: V1 #35

via AB4EL Web Digests @ SunSITE

Purpose: building and operating vacuum tube-based QRP rigs

AB4EL Ham Radio Homepage @ SunSITE

%%%% GlowBugs %%%% GlowBugs %%%% GlowBugs %%%% GlowBugs %%%%

Subject: glowbugs V1 #35

glowbugs Sunday, May 18 1997 Volume 01 : Number 035

```
Date: Sat, 17 May 1997 21:41:23 +0000
Subject: Re: HW 16?
On 17 May 97 at 15:30, Ken Gordon spoke about Re: HW 16? and said:
> > >
> > Hi, Leon:
> > Well, for one thing, if it works, you have bought a genuine
> > bargain.
> Agreed. It is a neat little rig. I just bought one recently since
> some of my children now want to be hams. (About time!!!)
             The HW-16 receiver is a fairly sanitary superhet with a
> > bandwidth that's really a bit too broad -- or maybe a LOT too
> > broad -- to satisfy most CW ops.
> Too broad?!?!? Well, I guess if you are used to a Collins mech
> filter at 200 Hz, 500 hZ (the HW-16) might appear to be too broad.
> Personally, I think it just fine...then again, I prefer the 2.1 kHz
> filter for CW anyway so I can keep track of what is going on nearby.
> :-)
> Ken W7EKB
Yep, those psycho-cybernetic mental filters work fine for a while,
but you get tired of them after a while if the QRM is hot and heavy!
******************
*** 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com
*** See the great ham radio resources at:
** http://www.mnsinc.com/bry/
******************
```

Date: Sun, 18 May 1997 00:27:31 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Dayton!

Hi!

Went to Dayton this afternoon, and spent the whole day walking and talking. Even ran into a few of the gang (Hi, Dave!), but met about as many empty spaces, working from the list. Oh, well. Slept late & didn't arrive 'til 2pm.

Was hoping to find a Sky Buddy, or a Millen 90801. Nope. (At 2pm Sat, Dream On!)

But guess what! I found a Mac! Dear Tom Perrera had a table full of keys, with Tom-type prices (doggone it, he knows the market too well!). I showed up to yack and see if I could fondle some of the nicer ones (he had *three* Cootie keys!), and got a chance to play with a vertical Vibroplex (which works a *lot* better than I would have thought). Was pinin' over the Macs, and lo and behold, he had one sans nameplate and repainted that was within my budget! 'Tis a fine thing--just hope I have time to use it.

Also ended up with a UK WWII-ish key (says something about "8AMP" but I 'spect it's an ID number--and beseems me this critter is sort of the same thing as a J-38 in terms of postwar availability in country of origin), plus a cute "new antique," a NIB key made for USN in '44, and very nice. Can't decide if it was intended as a trainer or a real key or what--has a *jack* for a wedge plug in the side! Solid oval base, most unusual.

That was about it, though I did find a couple of the small-skirt GE/National verniers, as used in the BC-375(?)--somebody here was looking for same and if he still is, lemme know; paid \$5.00 @ for this set. Also a crystal...but not that kind--a nifty semi-fixed galena detecting crystal, 1920s-ish.

Was a good day. Still haven't ever gone inside the buildings at the Dayton Hamvention—they tell me ER & Vibroplex are in there but it's a lot of walking for a few stops and too much solid—state stuff around 'em.;)

73, --Bobbi

PS: Once again, the truck drivers on I-70 proved themselves the people I most like to share a highway with—they're rational, predictable and polite (at least while driving). Of course they also laugh profusely at the tiny Suzuki Samuri zipping along at 65+mph—this is good, it's so small they might not see it otherwise! (The power/weight ratio of the Suzuki is about the same as a semi—so I usually end up around trucks).

Date: Sun, 18 May 1997 11:17:57 +0000

From: janax@mail.li.icl.se Subject: Re: Tube H..E..L..P..

```
> From:
                 Gerald Caouette <ve6nap@oanet.com>
> I have some JAN 7645 Valves (Tubes)
> 9 pin mini
> Military PN 5960-00-828-1217
> Packaged in Westinghouse boxes
I don't have data on 7645 but dug deep in my documentation here:
My books show 6939 and QQE02/5 as near relatives. It's a small double
beam power tetrode for VHF push-pull output usage.
The pinning for QQE02/5 is:
1: grid I
2: common cathode
3: grid II
4,5: heater
6: plate I
7: common screen grid
8: plate II
9: heater center tap
Some data below:
C telegraphy: Va = 180V, Vg2 = 180V, Ia = 56mA, Po = 5.8W at 500 MHz
              Va = 180V, Vg2 = 180V, Ia = 40mA, Po = 4.2W at 500 MHz
C ag2 mod:
Values are for both halves in push-pull.
Heater: 6.3V 0.6A (pin 4+5 to 9) or 12.6V 0.3A (pin 4 to 5)
Please note that it is a close relative, not a replacement but you
should be able to determine if the pinning is the same.
> And some
              JAN 5719 Valves (tubes)
> 8 lead miniature tube
> about 0.375 " diameter X 1.25" long with 1.5" leads
> Military PN 5960-00-228-0636
> Package says simalar to CV-4008
5719 is an AF triode in an 8 wire submini package. Pinning is:
1: grid
2,4,7: not connected
3,6: heater
5: cathode
Pin numbering is the same as normal sized tubes, bottom view with the
gap down, pin 1 first to left.
Typical operating point:
Va = 100V, Rk = 1.5kohm, Ia = 0.73mA, S = 1.7mA/V, Ri = 41kohm
mu = 70
Max Pa = 0.55W, Max Ik = 3.3mA, Peak Vkf = 200V
Heater is 6.3V 0.15A
73
Jan, SM5GNN
Linkoeping, Sweden
```

Date: Sun, 18 May 1997 11:17:57 +0000 From: janax@mail.li.icl.se

Subject: Re: Glowbugs Archives - let me know if there are problems.

```
> From:
                 rdkeys@csemail.cropsci.ncsu.edu
> The gnuzipper for dos is there (gzip.exe) and is invoked as:
      gzip -d filename.xxz
> to make filename.xx.
If you are lazy, copy or rename gzip.exe to gunzip.exe. Invoke as:
  qunzip filename.xxz
Clever proggie. It checks what name it was invoked as and if it
founds itself by name gunzip, defaults to "-d". On unix, make
a symbolic link from gunzip to gzip if not already done.
Jan, SM5GNN
Linkoeping, Sweden
Date: Sun, 18 May 1997 08:19:51 +0100
From: BOB DUCKWORTH <bob@atl.org>
Subject: Re: HW 16?
HW-16 is a bit broad.
Can be fixed somewhat by reducing drive to filter and
a bit of sheilding around filter.
Additional xtals may be added for better skirts too.
It's a radio that is cheap enough and common enough to
modify to your hearts content.
Can be put on 20m instead of 15.
I added a little VFO to mine, built in.
Funky but worked (well chirped a bit :-)
Jeff in Hawaii has it now.
Where is Jeff, did the 'lil boat sink while he was sleeping?
Only problem I've seen with them is the bandswitch.
Ceramic from a hamfest will fix that.
- -bob
wb4mnf
Date: Sun, 18 May 1997 08:17:49 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Re: 3579 & 7050 funzies
On Sat, 17 May 1997, Brian Carling (Radio G3XLQ / AF4K) wrote:
> Can you tell us about that swap net, Ken?
It was on 7240 kHz SSB. I heard it yesterday (Saturday). It was in the
afternoon. Don't recomember the exact time, but I think it was about
4:30 PM PDT. The NCS was reading from a long list of WTB and WTS stuff.
Mostly modern rice-boxes, but some not. He was operating VOX and was
being broken often. He would then get the two contacts together. I know
```

a member of this list was looking for a Millen grid-dip meter and there was one offered as the last item in the list. Whoever offered it wanted \$80 for it complete, in the case, with all coils. That is all I know, but I will listen today and see what else I can learn. My SSB rig is broken and I am not really in any real hurry to fix it. I'm having too much fun with the 109!

Ken W7EKB

Date: Sun, 18 May 1997 10:29:18 -0500 (CDT)

From: Bob Roehrig

Stroehrig@admin.aurora.edu>

Subject: Cheap CW filter

I have seen some discussion concerning receiver selectivity and thought I would throw this out for comment. A cheap and easy way to increase selectivity, audio-wise, is to use a series L-C circuit in an audio stage of the receiver. This can be switched across the cathode resistor in an audio stage easily. If the cathode resistor is bypassed with a capacitor, which is usually the case (especially in the power output stage), the cap must be switched out when the L-C circuit is switched in. What I have used in the past is one of the common (used to be common anyway) 88mh toroids popular with the RTTY folks. That in series with about .75uf makes the circuit makes it resonant around 700 Hz.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI CIS: Data / Telecom Aurora University, Aurora, IL 630-844-4898 Fax 630-844-5530

Date: Sun, 18 May 1997 08:35:19 -0700 (PDT)

From: Ken Gordon <keng@uidaho.edu>

Subject: Re: HW 16?

Hi!

Thanks for the info!

I have come up with a very easy (to my mind) conversion for the HW-16 to use the receiver VFO for the transmitter, with RIT. If anyone is interested I will send it.

Kenneth G. Gordon W7EKB

226 N. Washington St.

Moscow, Idaho 83843

(208)-882-8745

Great Highland Pipes, Amateur Radio, Electronic Consulting, Home-Schooling

Traditional Roman Catholic

My PGP Public Key Upon Request.

On Sun, 18 May 1997, BOB DUCKWORTH wrote:

```
> HW-16 is a bit broad.
> Can be fixed somewhat by reducing drive to filter and
> a bit of sheilding around filter.
> Additional xtals may be added for better skirts too.
> It's a radio that is cheap enough and common enough to
> modify to your hearts content.
> Can be put on 20m instead of 15.
> I added a little VFO to mine, built in.
> Funky but worked (well chirped a bit :-)
> Jeff in Hawaii has it now.
> Where is Jeff, did the 'lil boat sink while he was sleeping?
> Only problem I've seen with them is the bandswitch.
> Ceramic from a hamfest will fix that.
> wb4mnf
Date: Sat, 01 Mar 97 09:19:47 PST
From: "Adam, KD6POC" <kd6poc@jps.net>
Subject: Baked On Finishes
Hello There, Glowbuggers!
Does anyone know a good way to bake on an Enamel finish? I would like to =
add a durable coat of paint to homebrewed equipment, but nobody seems to =
know how to do it. Any suggestions?
Thanks!
Adam McLaughlin KD6POC
QRG: 7037 KHz
kd6poc@jps.net
http://www.jps.net/jmclaugh
Date: Sun, 18 May 1997 13:10:44 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
Subject: NEED PART
>To: BA
>From: leeboo@ct.net (Leon Wiltsey)
>Subject: NEED PART
>Cc:
>Bcc:
>X-Attachments:
>Hi Gang
>Here I sit in this little one horse town, needing a
>rec type cariable cap. Size not critical as I am
```

>building coil to match. The only one I had I used
>in my regen, and yesterday the plates started coming
> loose. Looked all over town for an old rec to yank one

```
> out of no luck. So here I am rec is nw.and I need a part.
> I probably will get many offers and intend to take you
> up on all of them. Something like a 140mmfd or even
> as high as 365 from a old broadcast tuner will due.
>tnx agn for all your help. 73 73 73
68 yr old semidisabled senior
(stroke got my balance & hand to eye coordination)
old old old ham but I'm back agn
now KF4RCL TECK+ (MUCH HAPPINESS)
PLAY KEYBOARD AND SING?
BUILD MOST OF MY STATION EQUIP
(tubes that is no SOLID STATE)
no trash music (anything composed after 1965)
Leon B Wiltsey (Lee)
4600 Lake Haven BLVD.
Sebring, Fl. 33872
SEBRING FL. THAT WONDERFUL PLACE WHERE THERE IS NO QRM
FROM ANYTHING LOCAL
Date: Sun, 18 May 1997 09:54:28 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
Subject: Re: HW 16?
                 The HW-16 receiver is a fairly sanitary superhet with a
> >> bandwidth that's really a bit too broad -- or maybe a LOT too
> > > broad -- to satisfy most CW ops.
>> Too broad?!?!? Well, I guess if you are used to a Collins mech
>> filter at 200 Hz, 500 hZ (the HW-16) might appear to be too broad.
> Personally, I think it just fine...then again, I prefer the 2.1 kHz
> > filter for CW anyway so I can keep track of what is going on nearby.
> > :-)
> >
> > Ken W7EKB
```

Yer right, of course, but, except when I was heavy into traffic handling, I hardly ever used vy narrow selectivity since usually the CW tone chosen by the manufacturer was too darned high for my liking.

> Yep, those psycho-cybernetic mental filters work fine for a while,
> but you get tired of them after a while if the QRM is hot and heavy!

Usually, I avoid situations where the QRM is heavy....Hmmm...do remember nearly starting an international "incident" when I told a bunch of Cuban army stations sitting smack on top of 3560 kHz (RN7 net freq) to "get *******" in Spanish. It seemed to me at the time that they were purposely QRMing us. In any case, the CW really flew back and forth there for a few minutes. Didn't hear them after that. I was running a pair of 813s at the time.

```
Date: Sun, 18 May 1997 10:01:16 -0700 (PDT)

From: Ken Gordon <keng@uidaho.edu>
Subject: Re: Baked On Finishes

On Sat, 1 Mar 1997, Adam, KD6POC wrote:

> Hello There, Glowbuggers!

> Does anyone know a good way to bake on an Enamel finish? I would
> like to add a durable coat of paint to homebrewed equipment, but nobody
> seems to know how to do it. Any suggestions?
```

For aluminum, you should first wash it with vinegar to break the oxide coating a bit, then prime it with zinc chromate (kind of a chartreuse color). Can't really advise you on the paint. I use spray enamel from the local hardware store since I don't know where to get wrinkle paint anymore. Then I bake it in wife's oven at about 150 degrees for several hours...when she lets me. There was an article in Hints and Kinks a few years ago about building a "baker" out of an old refrigerator with a hot plate at the bottom.

Ken W7EKB

```
Date: Sat, 17 May 1997 12:21:46 -0500
From: Ray LaRue <raylarue@gte.net>
Subject: Re: Tube H..E..L..P...
janax@mail.li.icl.se wrote:
                   Gerald Caouette <ve6nap@oanet.com>
> > From:
> > I have some JAN 7645 Valves (Tubes)
> > 9 pin mini
> > Military PN 5960-00-828-1217
> > Packaged in Westinghouse boxes
> I don't have data on 7645 but dug deep in my documentation here:
> My books show 6939 and QQE02/5 as near relatives. It's a small double
> beam power tetrode for VHF push-pull output usage.
> The pinning for QQE02/5 is:
> 1: grid I
> 2: common cathode
> 3: grid II
> 4,5: heater
> 6: plate I
> 7: common screen grid
> 8: plate II
> 9: heater center tap
```

```
> Some data below:
> C telegraphy: Va = 180V, Vg2 = 180V, Ia = 56mA, Po = 5.8W at 500 MHz
                 Va = 180V, Vg2 = 180V, Ia = 40mA, Po = 4.2W at 500 MHz
> Values are for both halves in push-pull.
> Heater: 6.3V 0.6A (pin 4+5 to 9) or 12.6V 0.3A (pin 4 to 5)
> Please note that it is a close relative, not a replacement but you
> should be able to determine if the pinning is the same.
> > And some
                JAN 5719 Valves (tubes)
> > 8 lead miniature tube
> > about 0.375 " diameter X 1.25" long with 1.5" leads
> > Military PN 5960-00-228-0636
> > Package says simalar to CV-4008
> 5719 is an AF triode in an 8 wire submini package. Pinning is:
> 1: grid
> 2,4,7: not connected
> 3,6: heater
> 5: cathode
> 8: plate
> Pin numbering is the same as normal sized tubes, bottom view with the
> gap down, pin 1 first to left.
> Typical operating point:
> Va = 100V, Rk = 1.5kohm, Ia = 0.73mA, S = 1.7mA/V, Ri = 41kohm
> mu = 70
> Max Pa = 0.55W, Max Ik = 3.3mA, Peak Vkf = 200V
> Heater is 6.3V 0.15A
> 73
> ---
> Jan, SM5GNN
> Linkoeping, SwedenJan,
My RCA, 1973 Industrial tube guide, says the RCA direct replacement for
the 7645, is a 6939.
73,
Ray, W4BYG
```

Date: Sat, 17 May 1997 10:39:03 -0700 From: Ken Lopez <kjlopez@earthlink.net>Subject: Re: 3579 & 7050 funzies

The swap net you heard is the West Coast Swap Service, hosted by Clarence, W6DFG. It has been on for over twenty years. Saturday and Sunday, 12:30PM pacific time, 7.240KHz. List three items for sale or want to buy.

Format: Callsign in phonetics (standard), Name, QTH, Listing, price, phone number including area code. He is a stickler for the format. List once per weekend. He reads the list at 3:00PM, and both lists on Sunday. I have gotten lots of good buys from that list.

Hope that helps, Ken, N6TZV Date: Sun, 18 May 1997 15:45:50 -0700

From: Gerald Caouette <ve6nap@oanet.com>
Subject: 480 Volt AC time delay relays for sale

I have 6 only

AGASTAT Model 7012L10KN

Time delay on Pick up relays

Adjustable from 1 to 300 Seconds

Coil is 440 Volt AC 60 Cycle

Great industrial control relay

Contacts are rated 20 Amps $\,$ at 240 VAC or 12 Amps at 480 VAC $\,$

I am offering these for 50.00 U\$ each or take all 6 for 275.00 U\$ Shipping Extra

Email if intrested to Gerald Caouette de ve6nap@oanet.com

Date: Sun, 18 May 1997 16:27:47 -0700

From: Gerald Caouette <ve6nap@oanet.com>
Subject: 807 equivelents and other tubes 4 sale

I have the following tubes

As I only want a few of these for my own use I am offering the rest for sale $\ \ \,$

I have 80 Jan 7645 Twin tetrodes for sale NIB/NOS in original Westinghouse Boxes and would like \$ 3.00 U\$ each or

5 for 12.00 10 for 20.00

I have 100 NIB/NOS JAN 5719 miniature triodes and would like \$2.50 U\$ each or 5 for \$10.00 U\$

5 for \$10.00 U\$ 25 for 48.00 U\$ 50 for \$90.00 U\$

I still have 700 NIB/NOS JAN 5933 valves These are a military equivelent to the 807 Same base, pin out and electrical specifications

```
looking for $6.00 U$ each
    for
          20.00 U$
4
10 for
         45.00 U$
50 for 200.00 U$ ( 1 case )
100 for 375.00 U$ ( 2 cases )
All prices are in US funds
Shippng costs are extra extra
email if intrested
ve6anp@oanet.com
Edmonton, Alberta, Canada
Date: Sun, 18 May 1997 19:41:48 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
Subject: NEED PART
>To: BA
>From: leeboo@ct.net (Leon Wiltsey)
>Subject: NEED PART
>Cc:
>Bcc:
>X-Attachments:
>Hi Gang
>Here I sit in this little one horse town, needing a
>rec type cariable cap. Size not critical as I am
>building coil to match. The only one I had I used
>in my regen, and yesterday the plates started coming
> loose. Looked all over town for an old rec to yank one
> out of no luck. So here I am rec is nw.and I need a part.
> I probably will get many offers and intend to take you
> up on all of them. Something like a 140mmfd or even
> as high as 365 from a old broadcast tuner will due.
>tnx agn for all your help. 73 73 73
SUB TO BOTH GLOWBUGS & BOATABCHORS
68 yr old semidisabled senior
(stroke got my balance & hand to eye coordination)
old old old ham but I'm back agn
now KF4RCL TECK+ (MUCH HAPPINESS)
PLAY KEYBOARD AND SING?
BUILD MOST OF MY STATION EQUIP
(tubes that is no SOLID STATE)
```

no trash music (anything composed after 1965)

4600 Lake Haven BLVD. Sebring, Fl. 33872 SEBRING FL. THAT WONDERFUL PLACE WHERE THERE IS NO QRM FROM ANYTHING LOCAL Date: Sun, 18 May 1997 20:07:32 -0400 From: "Greg Parsons A.K.A. Rat" <gregp@MIS.Net> Subject: Re: Baked On Finishes Hello gang, You could do like I have for some small stuff, spray epoxy, it comes in a can and you can find it at hobby shops that deal with RC planes, Red Baron brand seems to work best for me. One problem, 48 hour drying time, and they do mean 48 hours! 73, Greg ke4ooo At 09:19 AM 3/1/97 PST, you wrote: >Hello There, Glowbuggers! >Does anyone know a good way to bake on an Enamel finish? I would like to add a durable coat of paint to homebrewed equipment, but nobody seems to know how to do it. Any suggestions? >Thanks! >Adam McLaughlin KD6POC >QRG: 7037 KHz >kd6poc@jps.net >http://www.jps.net/jmclaugh Greg Parsons KE4000 gregp@mis.net gregp@lfucg.com AMI #865 DoD 862 Who has the coffee? Better yet, who has the Ale8one? NRA Life, SCCA, SCA http://www.stdio.com/~gregp http://www.lfucg.com |

"Religiones antiquae et arma ridiculae non comparant cum bono telo eruptionis igneae latero te, puer." Hanno Solare

Date: Sun, 18 May 1997 20:09:09 -0400 From: Adam Liette <kb8ydx@geocities.com> Subject: 6m Glowbug

Hello. Anyone have a diagram of a simple Glowbug fer 6m? I'd like to try one.

TNX ES CUL

Leon B Wiltsey (Lee)

Adam Liette URL:kb8ydx.base.org

E-Mail:kb8ydx@geocities.com

/		
,	i ,	,
. /	! /	
/		1
/		· 1
•		

End of glowbugs V1 #35

%%%% GlowBugs %%%% GlowBugs %%%% GlowBugs %%%%

AB4EL Ham Radio Homepage @ SunSITE

Created by **Steve Modena**, **AB4EL**Comments and suggestions to **modena@SunSITE.unc.edu**